BIBLIOTHECA

SWAN.

A NEW ALMANACK

For the year of our LORD GOD

1679.

Being the third after Biſſextile or Leap-year and from the Creation of the World (at the Spring) 5682 years compleat.

Calculated properly for the famous Univerſity and Town of *Cambridge*, whoſe Longitude is 24 degr. and 20 min. Latit. 52 Deg. and 17 min.

Wherein is ſhewed the principal Aſpects of the Planets, with the beginning and ending of the Terms, both at *Cambridge*, and *London*, with ſeveral other things of note ſutable for a work of this kind.

Dixit autem Deus, fiant Luminaria in Firmamento Cœli, & dividant Diem ac Noctem: & ſint in Signa, & tempora, & Dies, & Annos, Gen. 1. 14.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the Univerſity. 1679.

A Regal Table from *Egbert* (of whom it is thought *England* took its name) to our Sovereign Lord King *Charles* the second.

Kings names.	Reig. begā. A. C.	Reign. years.	Kings names.	Reig. begā. A. C.	Reign. years.
Egbert	818	18	Henry 2	1154	35
Ethelwolf	836	21	Richard 1	1189	10
Ethelbald	857	1	John	1199	17
Ethelbert	858	5	Henry 3	1216	56
Ethelfred	863	10	Edward 1	1272	35
Alfred	873	27	Edward 2	1307	19
Edward 1 fax	900	24	Edward 3	1326	51
Ethelstan	924	16	Richard 2	1377	22
Edmond 1.	940	6	*Line of Lane.*		
Edred	946	9	Henry 4	1399	13
Edwyn	955	4	Henry 5	1413	9
Edgar	959	20	Henry 6	1422	38
Edward 2 fax.	979	27	*Line of York.*		
Ethelred	982	34	Edward 4	1460	23
Edmond 2	1016	1	Edward 5	1483	0
Danish Line			Richard 3	1483	2
Canutus	1017	20	*Families united*		
Harold	1037	3	Henry 7	1485	24
Hardicanutus	1040	2	Henry 8	1508	40
Edward conf.	1042	23	Edward 6	1547	6
Harold 2	1065	2	Q. Mary	1553	5
Norman Line			Q. Elizabeth	1558	44
Wil Conquer	1066	20	King James	1602	22
Wil. Rufus.	1087	13	Charls 1	1625	24
Henry 1	1100	35	Charls 2	1648	30
Stephen	1135	19	whom God preserve.		
Saxon Line restored					

This Table needs no explanation, for find but the Kings name in the 1. or 4 Column, and in the 2 or 5 you have the year of Christ in which he began his Reign, and in the 3 or 6 Column the years he Reigned.

A Table of the Terms with their Returns.

Hilary Term begins January 23, ends February 12.

Return days, or days of essoin.	Days of Exception	Returna Brevium.	Days of Appeara.
Octa. Hilar. Jan. 20	Jan. 21	Jan. 22	Jan. 23
Quind. Hilar. Jan. 27	Jan. 28	Jan. 29	Jan. 31
Craſt. Purif. Feb. 3	Feb. 4	Feb. 5	Feb. 6
Octab. Purif. Feb. 10	Feb. 10	Feb. 11	Feb. 12

Easter Term begins May 7, ends June 2.

Quind. Paſch. May 5	May 6	May 7	May 8
Tres Paſch. May 12	May 13	May 14	May 15
Mens. Paſch. May 19	May 20	May 21	May 22
Quinq. Paſch. May 26	May 27	May 28	May 30
Craſt. Aſcen. May 30	May 31	June 1	June 2

Trinity Term begins June 20, ends July 10.

Craſt. Trin. June 16	June 17	June 18	June 20
Octab. Trin. June 23	June 25	June 25	June 26
Quind. Trin. June 30	July 1	July 2	July 3
Tres Trin. July 7	July 8	July 9	July 10

Michaelmas Term begins Octob. 23 ends Novemb. 28.

Tres Mich. Octob. 20	Octob. 21	Octob. 22	Octob. 23
Mens. Mich. Octob. 27	Octob. 29	Octob. 30	Octob. 30
Craſt. anim. Novem. 3	Novem. 4	Novemb. 6	Novemb. 6
Craſt. Mart. Nov. 12	Nov. 13	Novemb. 14	Novem. 15
Octab. Mart. Nov. 18	Nov. 19	Novemb. 20	Novem. 21
Quind. Mart. Nov. 25	Nov. 26	Novemb. 27	Novem. 28

The Table of the Terms explained.

FIrst you are to know that every Return hath a Basis or known day, from whence it takes its denomination.

Crastino is the morrow after the Basis, or day nominated, as Crastino Trinitatis is the morrow after Trinity Sunday, which is the Basis or day that gives the denomination: Octabis is 8 days after Inclusively; Quind. is 15 days after; Tres that day 3 weeks; Mense that day month; and Quinq. that day 5 weeks

Now every one of these Returns hath 4 several days whereof they consist, the first whereof hath a double signification; the one is the day of Return, and the other the day of Essoyn for the Defendant in a personal Action, or the Tenant in a reall Action, to be Essoyn'd: the second is the day of exceptions, for the Plaintiff, or Defendant to lay an exception, if no Essoyn be cast, that the Defendant shall not be Essoyn'd or Amerced: The third is Returna Brevium, that is, the day whereon the Sheriff must return the Writ: And the fourth is the day of Appearance for Parties and Jurors in the Court of Common Pleas.

But when any of these days fall upon Ascension day, Midsummer day, All Saints day, or the Feast of the Purification, or any other Saints day, or Sunday, the next day serves for both; as if the Essoyn day fall upon a Sunday, then Munday must serve for that, and for the day of Exception both, as you may find by the foregoing Table.

The following Table sheweth the Suns Meridian, Altitude and Declination, as also the length of the Day, and Night, with the continuance of Twilight, answerable to every 6 Degr. of the Suns place, for the Latitude of 52 Degr. 17 min.

Sun

Suns place.	M.Al. D.	M.	Declin. D.	M.	Len.D. H.	M.	Le. N. H.	M.	Twi-ligh H.	M.
♑	30	61	14	23	31	16	34	7	26	All day
	6	24	59	40	23	23	16	32	7	23	and
	12	18	58	6	22	58	16	28	7	32	no night
	18	12	56	32	22	18	16	16	7	44	but
	24	6	54	58	21	23	16	8	7	52	continual
♌		11	53	24	20	13	15	50	8	10	Twi-light.
	6	24	51	50	18	50	15	2	8	34	3 25
	12	18	50	16	17	15	15	6	8	54	2 59
	18	2	48	42	15	29	14	40	9	14	2 43
	24	6	47	8	13	34	14	28	9	32	2 32
♍	♉		45	34	11	30	14	0	10	0	2 24
	6	24	44	0	9	20	13	36	10	24	2 17
	12	18	42	26	7	5	13	12	10	42	2 11
	18	12	40	52	4	45	12	48	11	12	2 7
	24	6	39	18	2	23	12	24	11	36	2 4
♎	♈		37	43	0	0	12	0	12	0	2 2
	6	24	36	9	2	23	11	32	12	23	2 0
	12	18	34	35	4	45	11	8	12	52	1 59
	18	12	33	1	7	5	10	42	13	18	1 59
	24	6	31	27	9	20	10	20	13	40	1 59
♏	♓		29	53	11	30	9	46	14	14	2 0
	6	24	28	19	13	34	9	32	14	28	2 1
	12	18	26	45	15	29	9	12	14	48	2 2
	18	12	25	11	17	15	8	54	15	6	2 4
	24	6	23	37	18	50	8	30	15	30	2 6
♐	♒		22	3	20	13	8	12	15	48	2 8
	6	24	20	29	21	23	7	56	16	4	2 10
	12	18	18	45	21	8	7	44	16	16	2 12
	18	12	17	11	22	58	7	34	16	26	2 13
	24	6	15	37	23	23	7	30	16	30	2 15
	30	♍	14	12	23	31	7	26	16	34	2 16

Having found the Sign and Degr. the Sun is in, in the following Almanack, find the same in the 1. or 2. Col. and right against the same in the 3. Col. are the Degr. and Min. of the Suns Merid. Altit. in the 4. his Declin. either North or South according to the Sign he is in; in the 5. the length of the Day; in the 6. the length of the Night; in the 7. the continuance of Twi-light, morning and evening.

The vulgar Notes and Moveable Feasts in both Accounts. viz.

Julian or English		Gregorian, or Foreign.
	Golden numbere	8
8	Cycle of the Sun.	8
28	Epact.	18
ℂ	Dominical Letter	A
March 2	Shrove-sunday	12 February
April 10	Easter-day	2 April
May 25	Rogation Sunday	7 May
May 29	Ascention-day	11 May
June 8	Whitsunday	21 May
June 15	Trinity-sunday	28 May
Novemb. 30	Advent-sunday	3 Decemb.

Some things in the following Alm. explained.

The 19 day of January among the Aspects of the Planets you will find ☽ Apogæon, that is, the Moon is then at her greatest distance from the earth: the 4 day you find ☽ Perigæon, that is, the ☽ is then neatest the earth: when you find ☽ cum ☊, the meaning is, the Moon is then with the Dragons-Head; when ☽ *cum* ☋, the ☽ is then with the Dragons-Tail, which are nothing else but the Intersections of the Moons Orb with the Ecliptick, when you find Stat. ad Direct it sheweth that Planet is Stationary to Direction; but if you find Stat. ad Ret. that Planet is Stationary, and becomes Retrograde: when you find any of the Planets Oriental, the meaning is, they are then morn. Stars; if Occidental, they are evening Stars: when you find ☿ elongitude Max. ☌ ☉, or elong. M. ☌ ☉, the meaning is, Mercury is then at his greatest distance from the Sun: *a.* stands for *ante*, or beforenoon; *p.* for *post*, or afternoon; *n.* or *o.* for noon.

The

The Scarlet days in the University of *Cambridge*, are as followeth.

All Saints, Christmas, Easter, Ascension, Whitsunday,
Trinity-Sunday, Commencement, and the 29 of May;
At the two Fairs proclaiming in June and September,
The Feast of Saint Michael, and the 5 of November,

To Funerals, Clerums and Supplications,
All Doctours go as to Congregations;

That is in their Robes.

MArriage comes in on the 13 day of January, and at Septuagesima Sunday it is out again until Low-sunday, at which time it comes in again, & goes not out till Rogation-sunday: thence it is forbidden until Trinity-sunday: from whence it is unforbidden till Advent-sunday: but then it goes out, and comes not in again till the 13 day of January next following.

The Names, and Characters of the 12 Signs, with the parts of mans Body which they are said to govern.

♈ Aries head and Face	♎ Libra Reins & Loyns
♉ Taurus neck and Throat	♏ Scorpio Secret members.
♊ Gemini Arms & Shoul.	♐ Sagitarius the Thighs.
♋ Cancer Breast & Stom.	♑ Capricornus the Knees.
♌ Leo Heart and Back	♒ Aquarius the Legs.
♍ Virgo Bowels and Belly	♓ Pisces the Feet.

January hath xxxi days.

New moon 2 day, 18 min. past noon
First quarter 9 day, at 21 past 3 in the morning
Full moon 16 day, at 2 min. past 6 at night
Last quarter 24 day, 5 ♑ min. past 9 at night.
New moon 31 day, 30 min. past 11 at night

							Sun-rising.		Sun-setting.	
1	a	Circumcision	21	35	Capr.	8	8	43	4	36
2	b	Octab. Steph.	22	36		22	8	33	4	37
3	c	Oct. John	23	37	Aqu.	7	8	23	4	38
4	d	Oct. Innoc.	24	38		21	8	0	4	0
5	e	Simeon	25	39	Pisces	6	7	59	4	1
6	f	Epiphany	26	40		21	7	58	4	2
7	g	Julian	27	41	Aries	5	7	57	4	3
8	a	Lucian ♃	28	42		19	7	55	4	5
9	b	Marcelline	29	43	Taur.	3	7	54	4	6
10	c	Sun in Aquar.	0	♒ 44		17	7	52	4	8
11	d	Hygin M.	1	45	Gem.	0	7	51	4	9
12	e	Octab. Epiph.	2	46		13	7	50	4	10
13	f	Hilary Bish.	3	47		26	7	48	4	12
14	g	Felix	4	48	Canc.	9	7	47	4	13
15	a	Maurit. M.	5	49		23	7	46	4	14
16	b	Marcellus	6	50	Leo	4	7	45	4	15
17	c	Anthony	7	51		19	7	44	4	16
18	d	Prisca	8	52		28	7	42	4	18
19	e	2 aft. Epiph.	9	53	Virg.	10	7	40	4	20
20	f	Octab Hill.	10	54		22	7	38	4	22
21	g	Agnes	11	55	Libra	4	7	36	4	24
22	a	Vincent	12	56		15	7	34	4	26
23	b	Term begins	13	57		27	7	32	4	28
24	c	Timothy b.	14	58	Scorp.	9	7	30	4	30
25	d	Conv. S. Paul	15	59		22	7	28	4	32
26	e	3 aft. Epiph	17	0	Sagit.	5	7	26	4	34
27	f	Quind H.	18	1		18	7	24	4	36
28	g	Agnes App	19	2	Capr.	1	7	22	4	38
29	a	Gildas Bb.	20	3		16	7	20	4	40
30	b	K. C. I Mart.	21	3	Aqua.	0	7	18	4	42
31	c	Saturn	22	4		15	7	16	4	44

Now the Sun's chariot back again is hurl'd
In Heaven's broad road towards our Northern world,
And yet methinks it comes but slowly, sure
If *Sol* but half of our cold did endure,
He'd make his horses nimbler ply their feet
And harder drive to get himself an heat.

January 1679.

In the beginning of the moneth it will be very cold, and it may be Snow. About the middle the cold will something abate, but it will be but for a short time, cold and high winds with Snow ending the moneth.

Cambridge Term begins the 23 day.

February Roman account.

The 26. *Venus* will be in conjunction with the Sun.

1	11		
2	12		
3	13		
4	14	☽ Perigæon	
5	15		
6	16		
7	17	☌☌☿	15 P
8	18		
9	19	△♄☿	2 p.
10	20		
11	21	☿ Elong. á ☉	
12	22		
13	23	✶♑♀	2 P.
14	24		
15	25		
16	26		
17	27		
18	28	☿ Stat. ad Re.	
19	29	☾ Apogæon.	
20	30	☌☌☉	15. p.
21	31	☌☌♀	12. p.
22	1		
23	2		
24	3	☽ cum ♌	
25	4	△♄♀	11 P.
26	5	☌ ☿	8 P.
27	6	△♄☉	7 P.
28	7	☌☉♀	8
29	8		
30	9		
1	10		

February hath xxviii days.

First quarter 7 day, 27 min. past 2 afternoon
Full moon 15 day, 29 min. past noon
Last quarter 23 day, 27 min. past 2 afternoon

M.D.	W.D.	Festival days with terms.	Suns place		Moons place.		Sun rise		Sun set	
1	d	Brigget fast.	23	♒ 5	Pisc	0	7	14	4	46
2	e	Purification	24	5		15	7	12	4	48
3	f	Craft. Purif.	25	6	Aries	0	7	10	4	50
4	g	Veronica	26	7		15	7	8	4	52
5	a	Agatha M.	27	7		29	7	6	4	54
6	b	Dorothy M.	28	8	Taur.	13	7	4	4	56
7	c	Rumwal. B.	29	8		27	7	2	4	58
8	d	Sun in Pisces.	0	♓ 9	Gem.	10	7	0	5	0
9	e	5 aft. Epiph.	1	9		23	6	58	5	2
10	f	Octob. Purif.	2	10	Canc.	7	6	56	5	4
11	g	Sother	3	10		18	6	54	5	6
12	a	Term ends	4	10	Leo	0	6	52	5	8
13	b	Agabus	5	11		13	6	50	5	10
14	c	Valentine	6	11		25	6	48	5	12
15	d	Faustine	7	11	Virg.	7	6	46	5	14
16	e	Septuagesima	8	11		29	6	44	5	16
17	f	Constant	9	11	Libr.	0	6	42	5	18
18	g	Concordia	10	12		12	6	40	5	20
19	a	Sabine	11	12		24	6	38	5	22
20	b	Mildred bis.	12	12	Scor	6	6	36	5	24
21	c	Cimbert	13	12		18	6	34	5	26
22	d	Cath. Peter.	14	12	Sagit.	0	6	32	5	28
23	e	Sexagesima	15	12		12	6	30	5	30
24	f	S. Matthias	16	12		24	6	28	5	32
25	g	Constance	17	12	Capr.	6	6	26	5	34
26	a	Victorin	18	12		18	6	24	5	36
27	b	Fortunatus	19	12	Aqua.	0	6	22	5	38
28	c	Oswald bis.	20	12		13	6	20	5	40

Sun rising.

Sun setting.

Sol's fiery horſes having drunk their fill
In cool *Aquarius*, dare no more ſtand ſtill,
Leaſt their hot Maſter with his flaming cords
Make 'em repent it. He well pleas'd affords
Them looſer reins, coming with full intent
With the two Fiſhes to begin his Lent.

Days	Ro. ac.	Planets aſpects	The Inclination of the air.
1	11		
2	12	☽ Perigæon	**February 1679**
3	13		
4	14		The cold will be ſo nething a-
5	15	☽ ♉	bated about the 7 day, but it is like
6	16	△ ♃ ♂ 10 m.	to be rainy, cold, windy and un-
7	17	♄ Star. ad Di.	pleaſant weather about the end.
8	18	☿ Sta. ad Dir.	
9	19		
10	20		
11	21		
12	22		
13	23		
14	24		
15	25		
16	26	☽ Apogæon	
17	27		
18	28		
19	1	□ ♄ ♀ 16 p	March Roman account.
20	2	☽ ♌	
21	3	☿ elong. Max.	
22	4		
23	5	△ ♄ ☿ 10 m	
24	6		
25	7		
26	8	□ ♄ ☉ 5 m.	
27	9		
28	10		

March hath xxxi days.

New moon 2 day, 49, m. after 8 in the morning
First quarter 9 day, 48 min. past 3 in the morning
Full moon 17 day, 9 m. past 4 in the morning
Last quarter 25 day, 16 min. past 3 morning
New moon 31 day, 33 min. past 3 in the morn.

									Sun-rising.		Sun-setting.	
1	d	David bish.	21	11	Pisc.	8	6	18	5	42		
2	e	Quinquagesi.	22	10		23	6	16	5	44		
3	f	Eutrophius	23	10	Aries	9	6	14	5	46		
4	g	Adrian	24	10		24	6	12	5	48		
5	a	Ashwednesd.	25	10	Taur.	8	6	10	5	50		
6	b	Frederick	26	9		23	6	8	5	52		
7	c	Perpetua	27	9	Gem.	6	6	6	5	54		
8	d	Mauritan	28	8		20	6	4	5	56		
9	e	1 Sun. in Lent	29	8	Canc.	3	6	2	5	58		
10	f	Sun in Aries.	♈	7		15	6	0	6	0		
11	g	Quirin	1	7		28	5	58	6	2		
12	a	Ember week	2	6	Leo	10	5	56	6	4		
13	b	Ernestus	3	5		22	5	54	6	6		
14	c	Leo bishop	4	5	Virgo	4	5	52	6	8		
15	d	Longine	5	4		15	5	50	6	10		
16	e	2 Sun. in lent,	6	3		27	5	48	6	12		
17	f	Patrick	7	2	Libra	9	5	46	6	14		
18	g	Edward	8	2		21	5	44	6	16		
19	a	Joseph Con.	9	1	Scorp.	3	5	42	6	18		
20	b	Rupert.	10	0		15	5	40	6	20		
21	c	Benedict	11	59		28	5	38	6	22		
22	d	Aphrodisius	12	58	Sagit.	10	5	36	6	24		
23	e	3 Sun. in lent,	13	57		23	5	34	6	26		
24	f	Quirin	14	56	Capr.	6	5	32	6	28		
25	g	Lady day	15	55		19	5	30	6	30		
26	a	Castulus	16	53	Aqua.	3	5	28	6	32		
27	b	Archibald	17	52		17	5	26	6	34		
28	c	Fremond m.	18	51	Pisces	2	5	24	6	36		
29	d	Eustach	19	50		17	5	22	6	38		
30	e	4 Sun. in lent	20	48	Aries	2	5	20	6	40		
31	f	Balbine	21	47		17	5	18	6	42		

The *Greenland* Bear with pleasure now espys
The half year absent Sun begin to rise.
He shakes himself, and trys his dry-suckt feet,
His winter food. With better now he'll meet.
And though he finds himself in such sad plight,
I can in the morning he'll be far at night.

March 1679

1	11	☽	Perigæon
2	12	☌	☉ 1 Dir.
3	13	△ ☌	☿ 10 m.
4	14		
5	15	☽	♉
6	16		
7	17		
8	18		
9	19		
10	20		
11	21		
12	22	☌	♍ ☿ 4 p.
13	23	△	☉ ☌ 7 p.
14	24		
15	25	☽	Apogæon
16	26	✶	♄ ☿ 17 p.
17	27	□	♄ ☿ 1 p.
18	28		
19	29	☽	☊
20	30		
21	31		
22	1		
23	2		
24	3		
25	4		
26	5	△	☌ ☿ 2 p.
27	6	☌	♄ ☉ 1 p.
28	7		
29	8	☽	Perigæon
30	9	✶	♄ ☉ 3 p.
31	10	□	☌ ☿ 6 M.

Commencement for Batchelours in Arts the 6 day.

The moneth is like to begin with wet weather, but about the 9 day expect blustering winds, and as the moneth began, so will it end with rain.

April Roman account.

☉ Eclipsed.

April hath xxx days.

First quarter 7 day, 57 min. past 6 at night
Full moon 15 day, at 46 past 1 in the morning.
Last quarter 23 day, 58 min. past 11 in the morn.
New moon 29 day, 27 min. past 7 at night

								Sun-rising.		Sun-setting.	
1	g	Theodorus	21	46	Taur.	2	15	16	6	44
2	a	Francis C.	22	44		17	5	14	5	46
3	b	Richard bis.	23	43	Gem.	1	5	12	5	48
4	c	Ambrose bi.	24	42		15	5	10	5	50
5	d	Vincent	25	40		29	5	8	6	52
6	e	✠ Sun. in Lent	26	39	Can.	12	5	6	6	54
7	f	Celestine	27	37		24	5	4		6
8	g	Egesippus	28	35	Leo	6	5	2	6	58
9	a	Perpet. V.	29	34		1	5	0	7	0
10	b	Sun in Taurus	☉ ♉	32	Virgo	0	4	58	7	2
11	c	Leo Pope	1	30		12	4	56	7	4
12	d	Julius	2	29		24	4	54	7	6
13	e	Palm sunday	3	27	Libra	5	4	52	7	8
14	f	Justinus	4	25		18	4	50	7	10
15	g	Olimpia	5	23	Scor.	0	4	48	7	12
16	a	Judoze	6	21		12	4	47	7	14
17	b	Aniceetus	7	20		25	4	45	7	15
18	c	Good-friday	8	18	Sagit.	7	4	43	7	17
19	d	Alphege M.	9	16		20	4	41	7	19
20	e	Easter day	10	14	Capr.	3	4	39	7	21
21	f	Anselm B.C.	11	12		16	4	37	7	23
22	g	Soter	12	10	Aqu.	0	4	35	7	25
23	a	S. George	13	8		13	4	33	7	27
24	b	Albertus	14	6		27	4	32	7	28
25	c	S. Mark Evan.	15	3	Pisc.	11	4	30	7	30
26	d	Cletus bish.	16	1		26	4	28	7	32
27	e	Low Sunday	16	59	Aries	11	4	27	7	33
28	f	Vitalis M.	17	57		25	4	25	7	35
29	g	Sibilla	18	55	Taur.	10	4	23	7	37
30	a	Erkenwald	19	52		25	4	22	7	38

The trees which ſtood ſo long like skeletons
At ev'ry blaſt rattling their naked bones
Cheat'd with the ſap that through each ſlender vein
Flows briskly on, begin to cloath again
With buds and leaves, whilſt nightly from the sky
Drop tears of joy, becauſe the Spring's ſo nigh.

April 1679.

The Latter Act the third day.

High winds at the begining of the moneth which may for a time hinder the Spring; but the moneth will end with very ſeaſonable ſhowers.

1	11		
2	12	☌ ☿ ☿ 8 m.	
3	13	✶ ♄ ☿ 4 m.	
4	14		
5	15	☌ ☉ ♀ 17 p.	
6	16		
7	17		
8	18		
9	19		
10	20		
11	21	☽ Apogæon	
12	22	□ ☌ ☿ 5 p.	
13	23		
14	24		
15	25	☽ Eclipſed	
16	26		
17	27		
18	28		
19	29		
20	30		
21	1		
22	2		
23	3		
24	4	☽ Perigæon	
25	5	□ ☌ ☉ 3 p.	
26	6		
27	7		
28	8	☽ ☌	
29	9		
30	10		

May Roman account.

May hath xxxi days.

First quarter 7 day, at 5 min. past 11 in the morning
Full moon 15 day, 24 min. past noon
Last quarter 23 day, at 26 min before 1 in morning
New Moon 29 day, 26 min. past 11 in the morn.

1	b	Phil. & Jacob.	20	50	Gem.	9	4	21	7	38
2	c	Athanasius	21	48		23	4	20	7	39
3	d	Invent. crucis	22	45	Canc.	7	4	18	7	41
4	E	2 sun. af. East.	23	43		20	4	17	7	43
5	f	Quind. Pasch.	24	41	Leo	3	4	16	7	44
6	g	John port. lat.	25	38		15	4	15	7	46
7	a	Term. begins	26	36		27	4	13	7	47
8	b	Appar. Mic	27	33	Virgo	9	4	12	7	48
9	c	Nazianzen	28	31		20	4	11	7	49
10	d	Ephimacus	29	28	Libra	2	4	9	7	51
11	E	Sun in Gem.	0 II	26		14	4	8	7	53
12	f	Tres Pasch.	1	23		26	4	6	7	54
13	g	Servatus	2	21	Scorp.	8	4	5	7	55
14	a	Boniface m.	3	18		21	4	3	7	56
15	b	Sophia	4	16	Sagit.	4	4	2	7	58
16	c	Peregrine	5	13		17	4	1	7	59
17	d	Sarah	6	10	Capr.	0	3	59	8	1
18	E	4 su . af. East.	7	8		13	3	58	8	2
19	f	Mens. Pasch.	8	5		20	3	57	8	3
20	g	Sewal. bish.	9	2	Aqu.	10	3	56	8	4
21	a	Berberdine	10	0		24	3	55	8	5
22	b	Adelme	10	57	Pisc.	8	3	54	8	6
23	c	Desiderius	11	54		22	3	53	8	7
24	d	Brandinus	12	52	Aries	6	3	52	8	8
25	E	Rogation-su.	13	49		20	3	51	8	9
26	f	Quinq; Pasch.	14	46	Taur.	5	3	50	8	10
27	g	Beda	15	43		19	3	49	8	11
28	a	Jonas Ab.	16	40	Gem.	3	3	48	8	12
29	b	Holy-Thurs.	K. Cha.		2 Ret.		3	47	8	13
30	c	Crast. ascen.	18	35	Canc.	1	3	46	8	14
31	d	Petronella	19	32		15	3	46	8	14

Sun-rising. Sun-setting.

Kind *Flora* in her fruitfull lap doth bring
The charming glorys of the blooming Spring,
Her sweetest flowers she strows the fields around
Whilst with delightfull tunes the woods resound.
Nothing but mirth and jollity appear,
Each youthfull face, as merry as the year.

May 1679.

Aboue the middle of this moneth expect winds, storms, & thunder, in some places: but then pleasant warm weather ends the moneth.

1	11		
2	12		
3	13		
4	14	☿ elong. á ☉	
5	15	✶ ♂ ♀ 8 p.	
6	16		
7	17		
8	18	☽ Apogæon.	
9	19	♂ ♄ ♀ ☌	
10	20		
11	21		
12	22	✶ ♐ ♀ 9 m.	
13	23		
14	24		
15	25		
16	26	☿ Stat. ad Re.	
17	27	✶ ♄ ♂ 7 m.	
18	28		
19	29		
20	30		
21	31		
22	1		
23	2		
24	3	☽ Perigæon.	
25	4	☽ ☍ ☿	
26	5		
27	6		
28	7	☌ ☉ ☿ 12 p.	
29	8	(△ ✶ ♂	
30	9		
31	10		

June Romans resound.

First quarter 6 day, 19 min. past 3 in the morning.
Full moon the 14 day, at 55 min. past 3 in the morn.
Last quarter the 20 day, 9 min. past 9 at night.
New moon the 27 day, at 10 at night.

1	☉	Sun. aft. Asc.	20	29	Canc.	28	3	46	8	21	14
2	f	Term ends	21	26	Leo	10	3	45	8	18	15
3	g	Erasmus	22	23		24	3	45	8	15	15
4	a	Petroctus	23	20	Virgo	6	3	44	8	12	16
5	b	Boniface m.	24	18		17	3	44	8	9	16
6	c	Artemius	25	15		29	3	44	8	6	16
7	d	Paul Bish.	26	12	Libra	10	3	44	8	3	17
8	☉	Whitsunday	27	9		22	3	43	8	0	17
9	f	Medard	28	6	Scorp.	4	3	43	7	57	17
10	g	Pelagia	29	3		16	3	43	7	54	17
11	a	S. Barnabas	0	♋ 0		29	3	43	7	51	17
12	b	Blandine	0	57	Sagit.	12	3	43	7	48	17
13	c	Anthony	1	54		25	3	43	7	45	17
14	d	Basil bish.	2	51	Capr.	9	3	41	7	42	17
15	☉	Trin. Sun. Or.	3	48		23	3	42	7	39	16
16	f	Craft Trin.	4	45	Aquar.	7	3	42	7	36	16
17	g	Botolph ab.	5	42		21	3	42	7	33	16
18	a	Marcelline	6	40	Pisc.	5	3	44	7	30	15
19	b	Corp. Christ.	7	37		19	3	45	7	27	15
20	c	Term begins	8	34	Aries	3	3	45	7	24	15
21	d	Woolburg bis.	9	31		17	3	45	7	21	15
22	☉	1 Sun. aft. Trin	10	28	Taur.	1	3	46	7	18	14
23	f	Octab. Trin.	11	25		15	3	46	7	15	14
24	g	John Baptist	12	22		29	3	46	7	12	13
25	a	Eloy bish.	13	19	Gem.	13	3	47	7	9	13
26	b	John & Paul	14	16		26	3	47	7	6	13
27	c	7 Sleepers	15	13	Canc.	10	3	48	7	3	12
28	d	Leo bish. fast	16	10		23	3	49	7	0	12
29	☉	S. Peter Apo.	17	7	Leo	6	3	50	6	57	11
30	f	Quind Trin.	18	4		18	3	51	6	54	11

The Twins who for a while did entertain
Heavens Planetary King, intreat in vain
His further stay. Who when he spys so near
Heavens Northern race, post drives with full career
And having gain'd it, gallops back amain
To view the Southern Hemisphere again.

June 1679.

The weather this moneth will be very various. The beginning being good but about the middle expect storms then good again.

The 19 day *Saturn* will be in conjunction with the Sun.

July Roman account.

11		
12		
13		
14		
15	☽ Apogæon.	
16		
17		
18	☽ cum ♌	
19	☌ ♄ ☉ 1 p.	
20	☿ S. ad Dir.	
21	□ ♃ ♂ ☉	
22		
23		
24		
25		
26	✱ ♃ ☉ 8 m.	
27		
28		
29		
30	☽ Perigæon.	
1	☽ ☋	
2	☊ elong. a ☉	
3		
4		
5		
6		
7		
8		
9		
10		

July hath xxxi days.

Firſt quarter 5 day, 52 min. paſt 8 at night
Full moon the 13 day, 44 min. paſt 10 in the morning
Laſt quarter 20 day, 13 min. paſt 1 in the morning.
New moon 27 day, 32 min. paſt 10 in the morning.

								Sun-riſing.		Sun-ſetting.	
1	g	Rumwald b.	19	1	Virg.	1	3	5	3	8	7
2	a	Viſit. Mary	19	58		13	3	5	4	8	6
3	b	Hyacinthus	20	56		25	3	5	5	8	5
4	c	Ulrick	21	53	Libra	6	3	5	6	8	4
5	d	Anſelme	22	50		18	3	5	7	8	3
6	e	3 aft. Trin.	23	47	Scorp.	0	3	5	8	8	2
7	f	Tres Trin.	24	44		12	3	5	9	8	1
8	g	Thilian	25	41		24	4	0	8		0
9	a	7 Bzethzen	26	38	Sagit.	7	4	1	7		59
10	b	Term ends	27	36		20	4	2	7		58
11	c	Pius mart.	28	33	Capr.	3	4	4	7		56
12	d	Henry	29	30		17	4	5	7		55
13	e	Sun in Leo	0	Ω 27	Aqua.	1	4	7	7		53
14	f	Bonaventure	1	25		16	4	8	7		52
15	g	Swithin B.	2	22	Piſc.	0	4	10	7		50
16	a	Dimond W.	3	19		15	4	11	7		49
17	b	Alexius	4	16		29	4	13	7		47
18	c	Molina	5	14	Aries	14	4	15	7		45
19	d	Dog days beg.	6	11		28	4	17	7		43
20	e	5 aft. Trin.	7	8	Taur.	12	4	19	7		41
21	f	Margaret m.	8	6		26	4	21	7		39
22	g	Praxeda	9	3	Gem.	9	4	22	7		38
23	a	Apollinaris	10	0		23	4	24	7		36
24	b	Chriſtian ſa.	10	58	Can.	6	4	26	7		34
25	c	S. Jam. Apo.	11	55		19	4	27	7		33
26	d	Anna	12	53	Leo	2	4	29	7		31
27	e	6 after Trin.	13	50		14	4	30	7		30
28	f	Celſus	14	48		27	4	32	7		28
29	g	Martha m.	15	45	Virgo	9	4	34	7		26
30	a	Abdon m.	16	43		21	4	35	7		25
31	b	Ignatius	17	40	Libr.	3	4	37	7		23

Now *Saturn* tricking up himself again,
And lending to the honest country Swain,
His sharpen'g'd sythe for this years hay: doth move
Am'rous steps to court the Queen of Love.
But she thinks age unworthy of her charms,
And slights him for the brisker god of arms.

July 1679.

The first day is Commencement Tuesday.

Very hot weather the former part of the moneth, about the middle storms with thunder and lightning in some places, then good to the end.

The 19 day will *Mercury* be in conjunction with the Sun 48 min. before noon.

August Roman account.

1	11	♂ ♄ ☿ 4 p.
2	12	☽ Apogæon.
3	13	✶ ♂ ☉ 11 m.
4	14	✶ ♄ ♀ 17 p.
5	15	✶ ♆ ☿ 10 m.
6	16	
7	17	
8	18	
9	19	
10	20	△ ♆ ♀ 13 p.
11	21	
12	22	
13	23	
14	24	
15	25	✶ ♂ ☿ 9 p.
16	26	☽ Perigæon.
17	27	
18	28	☽ cum ♉.
19	29	♂ ☉ ☿ 11 m.
20	30	□ ♆ ♀ 17 p.
21	31	
22	1	☐ ♆ ☉ 10 p.
23	2	
24	3	□ ♄ ♂ 2 p.
25	4	
26	5	
27	6	
28	7	
29	8	
30	9	
31	10	☽ Apogæon.

August hath xxxi days.

First quarter 4 day, 7 min. past 1 in the afternoon
Full moon 11 day, 16 min. past 8 at night.
Last quarter 18 day, 4 min. past 8 in the morn.
New moon 25 day, 15 min. past 1 morning

								Sun-rising		Sun-setting	
1	f	l	Lammas	18	38	Libra	14	4	39	7	21
2	g	d	Stephen M.	19	35		26	4	41	7	19
3	a	e	7 aft. Trin.	20	33	Scorp.	8	4	43	7	17
4	b	f	Dominick	21	31		20	4	44	7	16
5	c	g	Oswald	22	28	Sagit.	2	4	46	7	14
6	d	a	Transf. Christ	23	26		15	4	48	7	12
7	e	b	Donat. M.	24	24		28	4	49	7	11
8	f	c	Cyriack	25	21	Capr.	11	4	51	7	9
9	g	d	Roman M.	26	19		25	4	53	7	7
10	a	e	8 aft. Trin.	27	17	Aqua.	9	4	55	7	5
11	b	f	S. Lauren.	28	15		24	4	57	7	3
12	c	g	Gilbert	29	13	Pisc.	9	4	59	7	1
13	d	a	Sun in Virgo	0	m 11		24	5	0	7	0
14	e	b	Eusebius	1	8	Aries	9	5	2	6	58
15	f	c	Assump. of M	1	6		24	5	4	6	56
16	g	d	Roch M.	2	4	Taur.	8	5	6	6	54
17	a	e	9 aft. Trin.	3	2		23	5	8	6	52
18	b	f	Helena Emp.	4	0	Gem.	6	5	10	6	50
19	c	g	Sebaldus	5	58		19	5	12	6	48
20	d	a	Lewes bish.	6	57	Cant.	3	5	14	6	46
21	e	b	Timothy	7	55		16	5	16	6	44
22	f	c	Richard bis.	8	53		28	5	17	6	43
23	g	d	Zacheus tan	9	51	Leo	11	5	19	6	41
24	a	e	S. Bartholom.	10	49		23	5	21	6	39
25	b	f	Lewis King	11	47	Virgo	5	5	23	6	37
26	c	g	Irenæus	12	46		17	5	25	6	35
27	d	a	Dog days end	13	44		29	5	27	6	33
28	e	b	Augustine b.	14	82	Libr.	11	5	29	6	31
29	f	c	Decoll. S. Bap.	15	41		23	5	30	6	30
30	g	d	Felix	16	39	Scorp.	5	5	32	6	28
31	a	e	11 aft. Trin.	17	38		17		34	6	26

Now the laborious Swain beholds with fear
Each low hung cloud that in the skies appear,
Least big with thunder and with rain it pour,
Upon his harvest an unwelcome shower.
Whilst with his sickle he the earth doth shave,
No larth'ring rain he knows it need to have.

Auguſt 1679.

The moneth doth begin with rain, but about the full Moon clear and good weather again untill near the end.

1	11	☽ cum ♄.	
2	12	✱ ♄ ☿ 17 p.	
3	13	□ ♄ ♂ 3 p.	
4	14		
5	15	△ ♃ ♀ 2 p.	
6	16		
7	17		
8	18		
9	19		
10	20		
11	21		
12	22	♀ elong a ☉	
13	23	☽ Perigæon.	
14	24	☾ cum ♆.	
15	25	♂ ♂ ☿ 1 p.	
16	26		
17	27		
18	28		
19	29	✱ ♄ ☉ 1° p.	
20	30	☿ Stat. 2d R.	
21	31		
22	1		
23	2		
24	3	□ ♄ ♀ 3 p.	
25	4		
26	5		
27	6		
28	7		
29	8	☿ max. dil. à ☉	
30	9	☽ Apogæon.	
31	10		

September Roman account.

September hath xxx days.

First quarter 3 day, 53 min. past 4 in the morn.
Full moon 10 day, 36 min. past 2 in the morning
Last quarter 16 day, 18 min. past 6 at night.
New moon 24 day, 56 min. past 5 afternoon.

1	f	Giles abbot	18	36	Scor. 29	5	36	6		24
2	g	Veronica	19	35	Sagit. 11	5	38	6		22
3	a	Lupus	20	33	23	5	40	6		20
4	b	Cuthbert	21	32	Capr. 6	5	42	6	Sun setting.	18
5	c	Migoran	22	30	20	5	44	6		16
6	d	Magnus	23	29	Aqu. 3	5	46	6		14
7	e	12 aft. Trin.	24	28	18	5	48	6		12
8	f	Nat. of Mary	25	26	Pisc. 2	5	50	6		10
9	g	Gorgon	26	25	17	5	52	6		8
10	a	Nicholas	27	24	Aries 3	5	54	6		6
11	b	Mauritius	28	23	18	5	56	6		4
12	c	Silving	29	22	Taur. 3	5	58	6		2
13	d	Sun in Libra	0	♎ 22	18	6	0	6		0
14	e	13 aft. Trin.	1	19	Gem. 2	6	3	5		58
15	f	Nicomedes	2	18	16	6	4	5		56
16	g	Euphemia	3	17	29	6	6	5		54
17	a	Ember week	4	16	Canc. 13	6	8	5		52
18	b	Lambert	5	16	25	6	11	5		49
19	c	Januarius	6	15	Leo 8	6	13	5		47
20	d	Fausta fast	7	14	20	6	15	5		45
21	e	S. Mat. & Ord.	8	13	Virg. 2	6	17	5		43
22	f	Maurice	9	12	14	6	20	5		40
23	g	Esdras	10	12	27	6	22	5		38
24	a	Samuel	11	11	Libra 8	6	24	5		36
25	b	Cleophas	12	10	20	6	26	5		34
26	c	Justin	13	10	Scorp. 2	6	28	5		32
27	d	Cos. & Da.	14	9	14	6	30	5		30
28	e	15 aft. Trin.	15	8	26	6	33	5		28
29	f	S. Michael Ar.	16	8	Sagit. 8	6	34	5		26
30	g	S. Hierome	17	7	20	6	36	5		24

Her lip and basket too *Pomona* now
Fills with the choicest fruits of every bough.
Whilst *Bacchus* squeazeth forth his dear lov'd wine:
From the ripe clusters of the slender vine:
Who laughs to see the drunken god at length
Want her supporters to supply his strength.

September 1679.

Clear and pleasane at the beginning but near the middle cold winds and rain and not very good to the end.

1	11		
2	12		
3	13	△ ♄ ☿ 14 p.	
4	14	☿ elong. ☉	
5	15		
6	16	☌ ♆ ☿ 12 p.	
7	17		
8	18		
9	19		
10	20		
11	21	☽ cum ♉.	
12	22	☽ Perigæon.	
13	23		
14	24	△ ♄ ☌ 13 p.	
15	25	☿ ad circt	
16	26	☌ ♆ ☌ 12 p.	
17	27		
18	28		
19	29		
20	30		
21	1	□ ☊ ♄ 6 p.	October Roman account.
22	2		
23	3		
24	4	☉ Eclipsed.	
25	5	✱ ♄ ♆ 17 p.	
26	6	☌ ☉ ☿ 11 p.	
27	7	☾ Apogæon.	
28	8		
29	9		
30	10	□ ♄ ☿ 14 p.	

October hath xxxi days.

First quarter the 2 day, 40 min. past 6 at night
Full moon the 9 day, 17 min. past 11 in the morn.
Last quarter the 16 day, 40 min. after 8 in the moth.
New moon the 24 day, 32 min past 3 in the afternoon.

1	a	Remigius	18	7	Capr.	3	6	39	5	31
2	b	Leodegar	19	7		15	6	41	5	29
3	c	Candidus	20	6		27	6	43	5	27
4	d	Francis	21	6	Aqu.	12	6	45	5	25
5	e	16 aft. Trin.	22	6		26	6	47	5	23
6	f	S. Faith	23	5	Pisc.	11	6	49	5	21
7	g	Marcellus	24	5		26	6	50	5	20
8	a	Nicasius	25	5	Aries	11	6	52	5	8
9	b	Dionysius	26	5		26	6	54	5	6
10	c	Wilfride	27	5	Taur.	11	6	56	5	4
11	d	Demetrius	28	4		26	6	58	5	2
12	e	17 after Trin.	29	4	Gem.	11	7	0	5	0
13	f	Sun in Scor.	0 m	4		25	7	2	4	58
14	g	Calistus	1	4	Canc.	9	7	4	4	56
15	a	Hedgewige	2	4		22	7	6	4	54
16	b	Gallus	3	5	Leo	4	7	8	4	52
17	c	Audrey	4	5		15	7	10	4	50
18	d	S. Luke Evan	5	5		29	7	12	4	48
19	e	18 aft. Trin.	6	5	Virg.	11	7	14	4	46
20	f	Tres Mich.	7	5		23	7	16	4	44
21	g	Ursula	8	5	Libr.	5	7	18	4	42
22	a	Cordula m.	9	6		17	7	19	4	41
23	b	Term begins	10	6		29	7	21	4	39
24	c	Salome	11	6	Scor.	11	7	23	4	37
25	d	Crispine	12	7		23	7	24	4	36
26	e	19 aft. Trin.	13	7	Sagit.	5	7	26	4	34
27	f	Mens Mich. f.	14	8		17	7	28	4	32
28	g	Sim. & Iude	15	8	Capr.	0	7	29	4	31
29	a	Amarandus	16	9		13	7	31	4	29
30	b	Eadfine b.	17	9		26	7	33	4	27
31	c	Germin fast	18	10	Aqu.	9	7	35	4	25

Sun-rising. Sun-setting.

The Arch-chymist *Sol* in the long scorching day
Of the late Summer with atracting rays:
From off each bogg, and lake, and Ocean wide,
Great quantity of vapours did provide:
Which in heav'ns lembick he distild to rain;
And pours them now upon the earth again.

October 1679.

Wet weather the greater part of this month and sometimes high winds.

1	11		
2	12		
3	13		
4	14		
5	15	♀ St. ad Retr.	
6	16		
7	17	☽ Perigæon.	
8	18	☽ cum ♈.	
9	19	☽ eclipsed	
10	20		
11	21	☿ elon. a ☉	
12	22	♄ Stat. ad Ret.	
13	23		
14	24		
15	25		
16	26		
17	27		
18	28	☌ ♈ ☉ 17 p.	
19	29		
20	30		
21	31	△ ♄ ☉ 18 p.	
22	1	☽ cum ♌.	November Roman account.
23	2	♀ St. ad Ret.	
24	3	☽ Apogæon.	
25	4	☌ ♂ ☿ ☉	
26	5		
27	6		
28	7	☌ ♈ ☿ 2 p.	
29	8		
30	9	△ ♄ ☿ 16 p.	
31	10		

November hath xxx days.

First quart. 1 day 39 min. past 6 in the morning
Full moon the 7 day, 11 min. past 9 at night
Last quarter 15 day, 20 min. past 2 in the morning
New moon 23 day. 44 min. past 3 in the morn.
First quarter 30 day, 14 min. past 4 in the afternoon.

1	d	All Saints	19	10	Aqua.	22	7	35	4	25	
2	e	All Souls	20	11	Pisc.	6	7	37	4	23	
3	f	Prast. Anim.	21	11		18	7	39	4	21	
4	g	Agricola	22	12	Aries	5	7	41	4	19	Sun-setting.
5	a	Powder Plot.	23	13		19	7	43	4	17	
6	b	Leonard	24	14	Taur.	4	7	45	4	15	
7	c	Wildebrod	25	14		19	7	47	4	13	
8	d	Claudius	26	15	Gem.	4	7	49	4	11	
9	e	21 aft. Trin.	27	16		19	7	51	4	9	
10	f	Theodorus	28	17	Canc.	3	7	52	4	8	
11	g	Martin bif.	29	18		17	7	54	4	6	
12	a	☉ in ♐ Cr. M.	0	19	Leo	0	7	55	4	5	
13	b	Erastus	1	19		13	7	57	4	3	
14	c	Eugenius	2	20		26	7	58	4	2	
15	d	Frederick	3	21	Virg.	8	7	59	4	1	
16	e	22 af. Trin.	4	22		20	8	0	4	0	
17	f	Leopold	5	23	Libr.	2	8	1	3	59	
18	g	Octab. Mart.	6	24		13	8	2	3	58	
19	a	K. Char. Mar.	7	25		25	8	3	3	57	
20	b	Edmund K.	8	26	Scorp.	7	8	4	3	56	
21	c	Oblat. Mary	9	27		19	8	5	3	55	
22	d	Cicely Virg.	10	29	Sagit.	1	8	6	3	54	
23	e	23 aft. Trin.	11	30		14	8	7	3	53	
24	f	Clem. Mart.	12	31		27	8	8	3	52	
25	g	Quind. Mart.	13	32	Capr.	9	8	9	3	51	
26	a	Chrisog. M.	14	33		22	8	10	3	50	
27	b	Hugh	15	34	Aqua.	6	8	11	3	49	
28	c	Term ends	16	35		19	8	12	3	48	
29	d	Ods virg fast	17	37	Pisc.	3	8	12	3	48	
30	e	Advent Sund	18	38	S. Andr.		8	13	3	47	

Sun-rising.

The weary Pilot ventures now no more,
But anchors fast his vessel near the shoar
Of some safe harbour, and he there out braves
The fury of the winds, and of the waves,
Rough *Æol* with his bluſtering troops he there
No more then fanning *Zephyrus* doth fear.

November 1679.

Cold and unpleasant weather begins the month, and we are like about the middle to have some frosts. About the new Moon it may be something warmer.

1	11		
2	12		
3	13		
4	14	☽ Perigæon.	
5	15	☽ cum ♍	
6	16		
7	17		
8	18		
9	19		
10	20		
11	21	☌ ☉ ☿ 9 p.	
12	22		
13	23		
14	24		
15	25	☌ ☽ ☿ 17 p.	
16	26		
17	27		
18	28	☽ cum ♎	
19	29	☽ Apogæon.	
20	30		
21	1		December Roman account.
22	2		
23	3		
24	4		
25	5		
26	6	△ ☽ ☌ 12 p.	
27	7		
28	8		
29	9		
30	10		

December hath xxxi days,

Full moon 7 day, 10 min. past 9 in the morning
Last quarter 14 day, 36 min. past 10 at night
New moon 22 day, 27 min. past 10 at night
First quarter 30 day, 39 min. before 1 in the morn.

1	f	Daniel Bish.	19	39	Aries	0	8	Sun-rising.	14	3	Sun-setting. 46
2	g	Candida	20	40		14	8		14	3	46
3	a	Lucius K.	21	41		29	8		15	3	45
4	b	Barbara vir.	22	43	Taur	13	8		15	3	45
5	c	Sabina Ab.	23	44		28	8		15	3	45
6	d	Nicholas b.	24	45	Gem.	13	8		16	3	44
7	e	2 in Advent	25	46		27	8		16	3	44
8	f	Damascus	26	48	Canc.	11	8		16	3	44
9	g	Co: cep. Mary	27	49		25	8		17	3	43
10	a	Ambrose C.	28	50	Leo	8	8		17	3	43
11	b	Ephimeus	29	52		27	8		17	3	43
12	c	Sun in Capr.	0	♑ 53	Virgo	4	8		17	3	43
13	d	Lucian	1	54		16	8		17	3	43
14	e	3 in Advent	2	55		28	8		17	3	43
15	f	Hilda abbess	3	57	Libr.	10	8		17	3	43
16	g	O Sapientia	4	58		21	8		16	3	44
17	a	Ember week	5	59	Scorp.	3	8		16	3	44
18	b	Lazarus	7	1		15	8		16	3	44
19	c	Christopher	8	2		27	8		15	3	45
20	d	Julian	9	3	Sagit.	10	8		15	3	45
21	e	S. Th. & Ord.	10	5		22	8		15	3	45
22	f	Theodosius	11	6	Capr.	5	8		14	3	46
23	g	Vigor	12	7		18	8		14	3	46
24	a	Ad. & Ev. fast	13	9	Aqua.	2	8		13	3	47
25	b	Christ born	14	10		16	8		12	3	48
26	c	S. Stephen	15	11		29	8		11	3	49
27	d	S. John	16	12	Pisc.	13	8		10	3	50
28	e	Innocents	17	14		27	8		9	3	51
29	f	Crescens	18	15	Aries	11	8		8	3	52
30	g	David	19	16		25	8		7	3	53
31	a	Silvest. P.	20	18	Taur.	9	8		6	3	54

Winter another face of things doth show,
Rivers of Ice and fields o'rspread with Snow.
The naked trees, and hedges too so bare,
No shelter for the winged quire now are:
The frozen earth no nourishment imparts,
But is almost as hard as peoples hearts.

December. 1679.

Cold winds at the beginning and Winter weather to the end of the month.

1	11	☽ Perigæon.	
2	12	☌ ☿ ☿ 12 p.	
3	13	☌ ♄ ☌ ☍	
4	14	☿ Sta. ad Dir.	
5	15	☌ ♄ ☿ 2 p.	
6	16		
7	17		
8	18		
9	19		
10	20		
11	21		
12	22	☌ ☿ ☉ 9 m.	
13	23		
14	24		
15	25	☿ Stat. ad Di.	
16	26	☌ ♄ ☍ 10 p.	
17	27	☽ Apogæon	
18	28		
19	29		
20	30	✶ ☿ ☿ 14 p.	
21	31		
22	1		
23	2	□ ☿ ☿ 5 m.	
24	3		
25	4	☿ elong à ☉	
26	5		
27	6		
28	7		
29	8		
30	9		
31	10	☽ Perigæon	

January Roman account 1680.

A plain and easie Table shewing the true Interest due upon any sum of money from five shillings to an hundred pounds for a year or under, after the rate of six pounds in the hundred.

		1 Mon.			3 Mon.			6 Mon.			9 Mon.			A year.		
		l.	p.	q.	l.	p.	q.	l.	p.	q.	l.	p.	q.	l.	p.	q.
Shill.	5	0	0	1	0	0	3	0	1	3	0	2	2	0	3	1
	10	0	0	2	0	1	3	0	3	2	0	5	3	0	7	0
	15	0	0	3	0	2	2	0	5	1	0	8	0	0	10	2
Pounds.	1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
	2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
	3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
	4	0	4	3	1	2	1	2	4	2	3	6	3	4	9	0
	5	0	6	0	1	6	0	3	0	0	4	5	0	6	0	0
	6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
	7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
	8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
	9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
		l.	s.	d.	l.	s.	d.	l.	s.	d.	l.	s.	d.	l.	s.	d.
Tens of Pounds.	10	0	1	0	0	3	0	0	6	0	0	9	0	0	11	0
	20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
	30	0	3	0	0	9	0	0	18	0	1	7	0	1	16	0
	40	0	4	0	0	12	0	1	4	0	1	16	0	2	8	0
	50	0	5	0	0	15	0	1	10	0	2	5	0	3	0	0
	60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
	70	0	7	0	1	1	0	2	2	0	3	3	0	4	4	0
	80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
	90	0	9	0	1	7	0	2	14	0	4	1	0	5	8	0
	100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

Find your principall in the second Column, and right against the same is the interest due for one, three, six, nine or twelve moneths.

SWAN

The second part of this ALMANACK

for the year of our

LORD GOD

1679.

Wherein is contained the Eclipses, the time of the Suns entrance into the Cardinal Signs, with a figure of the Heavens at the Suns entrance into *Aries*, also an introduction to Chronology, Explaining more exactly many things in this and other Almanacks, with many other things worthy of note.

Magna opera Domini: Exquisita in omnes Voluntates ejus.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1679.

Of the Eclipses this year.

TWice this year will each of the two celestial luminaries, the Sun and Moon be eclipsed, yet will not one of these eclipses be visible to us that inhabit *England*.

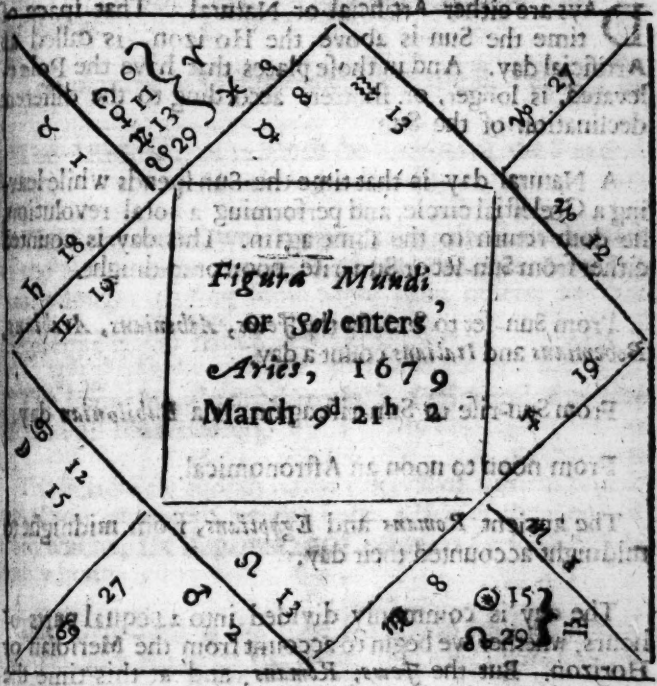
The first is of the Sun March 31 at our 7 at night and the Sun being then set it cannot appear to us; but to those that inhabit those parts of *America* that border upon New *France* or lie near it, the Eclipse will be almost totall, it happens in the 21 degree of Aries.

The second is of the Moon, April 15 at 10 at night. It will scarce be visible to us; but to those that inhabit *Hungary*, *Dalmatia*, *Polonia*, *Podolia*, &c. Half the body of the Moon will be Eclipsed. It happens in the 6 degree of Scorpio.

The third is of the Sun, September 24 at 6 at night, and cannot be seen by us; but to such as are in New *Zealand*, the Island of S. *Peter*, or sail in the *Pacifick* sea, it will appear a great Eclipse.

The fourth of the Moon, October 9 at 11 in the morning, visible onely to such as are very near our *Antipodes*, who may see 8 digits of 12 Eclipsed.

A Figure of the Heavens at the Suns entrance into *Aries*



The time of the Suns entrance into the other Cardinal Signs is as followeth.

He enters Cancer June 11 at noon.

He enters Libra September 13, 27 minutes after 3 in the morning.

He enters Capricorn December 11, 8 minutes after 3 in the afternoon.

A Short introduction to Chronology.

DAys are either Artificial or Natural. That ſpace of time the Sun is above the Horizon, is called an Artificial day. And in thoſe places that have the Pole elevated, is longer, or ſhorter, according to the different declination of the Sun.

A Natural day is that time the Sun ſpends while leaving a Coeleſtial circle, and performing a total revolution he doth return to the ſame again. This day is counted either from Sun-ſet or Sun-riſe, noon or midnight.

From Sun-ſet to Sun-ſet the *Jews*, *Athenians*, *Arabians*, *Bohemians* and *Italians* count a day.

From Sun-riſe to Sun-riſe again, is a *Babilonian* day.

From noon to noon an Aſtronomical.

The ancient *Romans* and *Egyptians*, from midnight to midnight accounted their day.

The day is commonly divided into 24 equal parts or hours, whether we begin to account from the Meridian or Horizon. But the *Jews*, *Romans*, and at this time the *Turks*, divide the Artificial day into 12 equal parts, and the night into as many. So that theſe days being very unequal, theſe hours are longer in Summer, then in Winter.

Ptolomy divided the day into 60 equal parts or ſcruples ſubdividing each of theſe into 60 more and ſo on. But by the more uſual way the day is divided into 24 hours, each hour

hour into 60 minutes, each minute 60 seconds, the seconds into thirds, the thirds into fourths in the same manner: in Astronomical calculations the minutes are marked with a single dash over the head, the seconds with two dashes &c.

The months are Astronomical or Natural, Political or Civil.

The Astronomical relate to the motion of the Sun and Moon.

The Solar are 12, which principally respect the ingress of the Sun into the 12 Signs of the Zodiack. Now the Sun is longer passing some Signs then others, but his mean time is days 30 hours 10 ' 29 " 5.

The Lunar months are three-fold, Periodical, Synodical, and of Illumination.

The Periodical month is that interval of time in which the Moon returneth to the same place of the Zodiack from whence she departed, and contains 27 days and about 7 hours.

The Synodical is the time from one conjunction of the Sun and Moon to the next following, which is 29 days 12 hours 44' 3".

The month of Illumination, contains the time from the first day of the Moons appearing next after her change, to the last day of her visibility. And is about 26 days, sometimes more sometimes less.

The Year is either Celestial, or Civil, the Celestial either Solar, or Lunar. For although from the revo-

lution of any of the Planets we might account a year, yet hath it been a cuſtom that onely the motion of theſe two which (although falſly) appear to be the greateſt, ſhould upon this account be conſidered.

The Solar year is either Tropical, or Syderial, the Tropical is 365 days 5 hours 49', being that ſpace of time is ſpent between the Sun's leaving one of the Cardinal points and his returning to the ſame again. Theſe points are the two Equinoxes and the Solſtices, and the year takes its name according to the point you account from, i.e. if from the Solſtice it is a Solſtical, if from the Equinox an Equinoxial year.

The Syderial year, is the time which is ſpent between the Sun's leaving one of the fixed Stars, and his returning to the ſame Star again, now the Stars having a ſlow motion, *viz.* 0d 0' 49" 55"', in a year the Sun doth not overtake the fixed Star till after he have performed a Tropical revolution he moves 49' 55" more, which he doth in 0h 20' 11" 22"', which added to the Tropical makes the Syderial year conſiſt of 365 days 6 hours 9' 11" 22"'.

The Lunar year was 12 Synodical months, and containd 354 days 8 hours 48'. Now this being ſhorter then the Solar it would begin in different times of that year, therefore the *Jews* who uſed this year, added another Lunar month, from which emboliſme or addition this kind of year had its name.

The Civil years are thoſe that every nation makes uſe of, and not to ſpend time upon the other ſort, I ſhall give you a ſhort account of the *Julian* and *Gregorian*.

The

The *Julian* which takes its name, from *Julius Cæsar*, contains 365 days 6 hours; now because of the 6 hours in every year above the 365 days, every fourth year is to have 366 days. And this day was to be inserted after February 23, which being in the *Roman* Kalander the 6 of the Kalends of March, in the Leap-year there were two 6 of the Kalends, from whence this year is called Bissextile. This year is used by the *Syrians*, *Ethiopians*, *Muscovites* and *Britains*.

The *Julian* year thus constituted and divided into weeks. In the year besides the even weeks one day would remain, as may be seen by dividing 365 by 7, therefore if the first of January fall one year on the Sunday, the next year it will fall on the Munday, and so on. Now supposing all the years to have been of this length, in seven years time the year would have begun again the same day of the week, but every fourth year consisting of 366 days, it will not do so till 28 years be finished. And this revolution of 28 years is called the Cycle of the Sun.

In the Kalender is put to January 1 a, to Jan. 2 b, and so on; now in common years that leter which is the Dominical or Sunday-letter one year, is the Munday-letter the next year, but in the Leap-year the same letter standing for the 24 and 25 of February, there are 2 Dominical letters, one for before that time, and the other until the end of the year.

The Cycle of the Sun for any year is thus found. Add 9 to the year of our Lord for which you seek it, and divide the summ by 28 the remainder answers your

desire. For example, for this year, 1679 with 9 added is 1688, which being divided by 28, the remainder is 8, the Cycle of the Sun for this year.

In the following Table right against this number you find E the Dominical letter, and so for any other year. The reason of the addition of 9, is because the year of *Christ*'s nativity, from whence we account, was in the 10 year of this Cycle, and as from the Table you may see the first after Bissextile, so that if we divide the year of our Lord by 4, if there be no remainder it shews it to be Bissextile, if any, so many years after it.

1	G	F	5	B	A	9	D	C	13	F	E	17	A	G	21	C	B	25	E	D
2		E	6		G	10		B	14		D	18		F	22		A	26		C
3		D	7		F	11		A	15		C	19		E	23		G	27		B
4		C	8		E	12		G	16		B	20		D	24		F	28		A

The Cycle of the Moon or Golden Number, contains a series of 19 years, at the end of which time the Ancients thought the new and full Moons happened again on the same days of the month. Now although this did well for some time after it was invented, yet after 312 years (for reasons too tedious to relate here) it mist of a day. The Golden Number is found by adding one to the year of our Lord, and dividing by 19, if any thing remains that is the Golden Number for that year.

The

The Cycle of Indiction contains 15 years, and if to the year of our Lord be added 3, and the ſumm divided by 15, the remainder ſhows what year of the Indiction it is. This Cycle hath no relation to the motion of the Planets, but was uſed by the *Romans* for the time of payment of tribute.

These 3 Cycles multipled together produce a ſumm which is called the *Julian* Period. As for example

Cycle Sun.	28
Gold. Num.	19
	252
	28
	532
Indiction	15
	2660
	532
Julian Period.	7980

A Table of the more notable Epoches.

Epoches	Years of the *Julian* Period.	Months
Julian Period	1	Jan. 1
Creation of the World	765	
The firſt *Olympiad*	3938	July 8
Building of *Rome*	3961	April 21
The Epoch of *Nabonaſſar*	3967	Feb. 26
The beginning of *Meton*'s Cycle	4281	June 26
The death of *Alexander* the Great.	4390	Nov. 12
The firſt year of our Lord was the 4713 of the *Julian* Period.	Years of our Lord.	
The *Turkiſh* Higra	622	July 16
The *Perſian* Era of *Jeſdagirdus*.	632	June 16

A Catalogue of some famous places, with their Latitude, and distance in Longitude from the Meridian of *Cambridge*.

Names of Places.		Longi. in time H.	M.	Elevat. Pole D.	M.
Aberdeen in Scotland	S	0	05	58	40
Adrianople in Thrace	A	2	06	43	20
Agria in Hungary	A	1	23	47	56
Alba Julia in Transylvania	A	1	34	47	00
Aleppo in Syria	A	2	27	37	20
Alexandria in Egypt	A	2	13	30	58
Algier	A	0	25	35	36
Amsterdam	A	0	23	52	25
Antwerp	A	0	19	51	12
Aracta in Chaldea	A	3	20	36	00
Arbela in Assyria	A	3	48	37	15
Astracan	A	4	00	50	00
Athens	A	1	54	37	42
Banbery	A	0	47	49	37
Bononia	A	0	45	43	45
Brundusium	A	1	19	40	34
Bulgaria in Tartary	A	4	02	56	00
Burges in Spain	S	0	13	42	40
Calecut in India	A	5	52	11	30
Carthage	A	0	43	34	50
Casan in Tartary	A	4	02	58	00
Cassella	A	0	46	51	19
Cair in Egypt	A	2	18	29	50
Chalcedon	A	2	22	43	15
Chester	S	0	08	53	10
Cochin	A	5	56	09	44

Cola

Names of Places.		Long in Time H.	M.	Elevat. Pole D.	M.
Cola in Lapland	A	2	20	69	24
Colberg in Pomerania	A	1	04	54	28
Compostella in Spain	S	0	36	43	00
Constantinople	A	2	20	43	00
Conymbria in Portugal	S	0	33	40	15
Cracovia	A	1	23	49	58
Cuma in Tartary	A	2	44	47	50
Damascus	A	3	18	34	00
Dantzick	A	1	10	54	23
Douay	A	0	16	50	24
Edenburg in Scotland	A	0	00	55	57
Epidaurus	A	1	54	35	30
Famagusta	A	2	59	35	30
Francford on the river Mœnus	A	0	35	50	07
Francford on the river Odor	A	1	00	52	20
Frueburgh	A	1	24	54	22
Franekera	A	0	25	51	12
Goesa	A	0	19	51	30
Gratium	A	1	06	47	02
Groningham	A	0	28	53	15
Hamburgh	A	0	42	53	43
Hafnia	A	0	51	55	43
Lincium	A	1	02	48	16
Lipsia	A	0	51	51	24
Liverpool	S	0	08	53	22
London	A	0	02	51	32
Leyden	A	0	21	52	11
Middleburgh	A	0	16	51	30
Mancheſter	S	0	07	53	24
Naples in Italy	A	1	00	40	42
Nicomedia	A	2	25	42	30

Nor-

Names of Places		Long. in Time H.	M.	Elevat. Pole D.	M.
Norimberg	A	0	48	49	26
Newcastle	A	0	01	55	09
Oxford	S	0	01	52	04
Paris	A	0	04	48	51
Prague	A	0	58	50	06
Rochester	A	0	04	51	30
Rome	A	0	52	42	02
Rochell	S	0	02	45	49
Smarcanda in Tartary	A	5	42	45	00
Scutara in Dalmatia	A	1	28	42	20
Sevil	A	0	18	37	20
Spahan in Persia	A	4	22	31	30
Stetin	A	1	00	53	36
Syracuse	A	1	07	36	50
Toledo	S	0	12	39	54
Tubing in Germany	A	0	40	48	34
Valens in Spain	A	0	08	39	30
Uraniburg in Denmark	A	0	52	55	55
York	S	0	01	54	02

In

In this Table in the Column immediately after the names, the letter A denotes the place to be to the East of *Cambridge*, and that the time in the Column following must be added to ours to make it the same with theirs, S shows the place to be more West, and that the time must be substracted upon the same account. Example, If I find in an Ephemeris calculated for the Meridian of *Uraniburg* that in this year January 2, 10 minutes after one in the afternoon the Moon will be in conjunction with the Sun. In the Table I find the place, and that it is to the East 52 minutes (of time) of *Cambridge*, therefore it will not here be so late by these 52 minutes, that is the new Moon will be 18 minutes after noon, and so for any other thing of the like nature. Now to know the difference of Longitude in degrees by the difference in hours, every hour being 15 degrees, and every minute of an hour equal to 15 minutes of a degree, for every hours difference account 15 degrees, and for the minutes of an hour a quarter of the number of degrees, the summ shows the difference of Longitude in degrees and parts of degrees.

A Table of Forreign Weights and Measures, carefully compared with the *English*.

	English foot into 1000 equal parts	English Foot into Inches and tenth parts of Inches			Pound Averdupoize reduced into 100 parts.
London Foot	1000	0	12	0	100
France					
Paris the Royal Foot	1068	1	00	8	0 97
Lion Ell	3 977	3	11	7	1 99
Bulloyne Ell	2 076	2	00	8	0 89

	Thousand parts	F.	I.	P.	Averdup. 100 parts
The 17 Provinces.					
Amsterdam Foot	942	0	11	3	0 93
Ell	2 269	2	03	2	
Antwerp Foot	946	0	11	3	0 93
Ell	2 273	2	03	3	
Brill Foot	1 103	1	01	2	
Dort Foot	1 184	1	02	2	
Rynland or Leyden Foot	1 033	1	00	4	0 96
Ell	2 260	2	03	1	
Lorain Foot	958		11	4	0 98
Mechalin Foot	919		11	0	0 90
Middlebourgh Foot	991		11	9	0 98
Germany					
Strasbourgh Foot	920	0	11	6	0 93
Bremen Foot	964	0	11	6	0 94
Cologn Foot	954	0	11	4	0 97
Francford on the Meen Foot	948	0	11	4	0 93
Ell	1 826	1	09	6	
Hambrough Ell	1 905	1	10	8	0 91
Leipsing Ell	2 260	2	03	1	1 17
Lubick Ell	1 903	1	09	8	
Norimburgh Foot	1 006	1	00	1	0 94
Ell	2 227	2	03	3	
Bavaria Foot	954	0	11	4	
Vienna Foot	1 053	1	00	6	0 83
Spain and *Portugal*					
Spanish Palm or the Palm of Caſtile	751	0	09	0	0 99
Spaniſh Vare or Rod 4 Palms	3 004	3	00	4	

The

	Thousand parts	F. I. P.	verdu. 00 par.
The Spanish Foot is $\frac{1}{3}$ of the Vare	1 001	1 00 0	
Lisbon Vare	2 750	2 09 0	1 06
Gibralter Vare	2 760	2 09 1	1 03
Toledo Foot	899	0 10 7	1 00
Vare.	2 685	2 08 2	
Italy			
Roman Foot on the monument of Cossutius	967	0 11 6	1 23
of Statilius	972	0 11 7	
Roman Palm for building whereof 10 make the Canna	732	0 08 8	
Bononia Foot	1 204	1 02 4	1 27
Ell	2 147	2 01 7	
Perch whereof 500 to a Mile	12 540	12 06 5	
Florence Brace or Ell	1 913	1 11 0	1 23
Naples Palm	861	0 09 6	1 43
Brace	2 100	2 01 2	
Canna	6 880	6 10 5	
Genoa Palm	830	0 09 6	1 42
Mantoua Foot	1 569	1 06 8	1 43
Milan Calamus	6 544	6 06 5	1 40
Parma Cubit	1 866	1 10 4	1 43
Venice Foot	1 162	1 01 9	1 53
Other places			
Dantzick Foot	944	0 11 3	1 19
Ell	1 903	1 10 8	
Prague Foot	1 026	1 00 3	1 06
Riga Foot	1 831	1 09 9	
China Cubit	1 016	1 00 2	

Tur-

	Thousand parts	F.	I.	P.	Aver
Turin Foot	1 062	1	00	7	
Cairo Cubit	1 824	1	09	9	1
Persian Arash	3 197	3	02	3	
Turkish Pike	2 200	2	02	4	0
The Greek Foot.	1 007	1	00	1	

In the second Column of the foregoing Table, suppo the *London* Foot divided into 1000 parts is contained number of those parts belonging to each measure. Exa the *Paris* Foot contains 1 *London* Foot and 68 of the t sand parts, in the second Column are the Inches, in the Column the Pounds belonging to each place. So the P at *Paris* is not so heavy as the Pound Averdupoize by the Averdupoize Pound. And so for the rest.

FINIS.